granites present their accustomed alternations and passages into each other, and so continue to the mouth of Rock Creek, in the District.

The rocks just enumerated are the prevailing ones of the county, and occur together variously associated; so that transverse sections and through the beds of the Seneka and of Rock Creek, would nominally present the recurrence of the same kinds of rocks. But, as our object now is to consider them solely in their economical relations, it is not necessary to dwell on the geological peculiarities they while the more satisfactorily the agricultural and mineral resources of the sounty. The county may thus be divided into four principal rejons, namely: the basin of the Patuxent, including the valley of llawling's river; the basin of Rock creek; that of the Seneka; and the Sugar-lands, so called. Under these heads, I shall now proceed to give an account of the physical geography and agricultural condition of the county.

1st. Basin of the Patuxent, including the valley of Hawling's river. -This portion of the county comprises a long belt of inferior hills, or spurs, between the river and an elevated ridge, upon which, starting from Damascus, Cracklingtown, Mechanicsville and Sandy Spring are located. Its length is about twenty-three miles, and its reatest breadth, measured from Cracklingtown, through Unity, to Iriadelphia, is six miles. In its upper part, the rocks, as already fated, are argillites and talcose slates, passing into steatites and serpenin; and as these last are magnesian rocks, the soil which they produce is meagre, and in many places quite arid. Yet the talcose slate, shough it contains a large proportion of magnesia, produces by its decomposition a light red soil, which yields very well in oats and win; and when it passes into a slaty horneblende, it is always found b give rise to a good wheat soil. The rocks just named are the precominant ones that make their appearance along the banks of the Paluxent, in Montgomery county, the trough of which, in many places, affords extensive alluvial flats, covered by a rich vegetable rould, very productive, and convertible into fine meadows. mer and central portions of the region now under examination, and specially in the valley of Hawling's river, the predominant rocks e hornblende, compact and slaty, gneiss, micaslate, sienites, and vagranitic aggregates, yielding as many different kinds of soil, thich, though possessed of little depth, are well constituted, and all them highly improveable by the usual tillage, which has a tendto deepen as well as to comminute and mix their several contuents. They take plaster kindly, and by the aplication of one and fifty bushels of lime to the acre, may be equal to the best lands of the State. Already, indeed, has the sof lime by several of the most intelligent and enterprising farmthese parts made the valley of Hemling's river and the vici-

a leville the most productive and flourishing portions of